

ABSTRACT OF THE DISCLOSURE

The liquid sample take-up device comprises two layers of concentric tubing. An outer tube has a fluid take-up end for selective immersion in a liquid to be sampled, and a liquid  
5 connection spaced from the fluid take-up end adapted to receive a chemical reagent under pressure, creating a reagent flow toward the take-up end. An inner tube is disposed within the outer tube and has an open end adjacent to the outer tube take-up end. The inner tube is adapted to fluid  
10 connect to a negative pressure source, higher than the reagent pressure, to create a fluid flow within the inner tube in a direction away from the open end, whereby sampled liquid and reagent are mixed adjacent the inner tube open end and within the outer tube take-up end. When the outer tube  
15 take-up end is not immersed in a liquid to be sampled, air is drawn into the outer tube take-up end and into the inner tube open end, creating a series of air bubbles, each bubble separated by a volume of reagent.